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... level instruction retry, distributed shared **memory** [Morin and ... how the determinants are logged to **stable** storage ... In pessimistic **log**-ging, the application has to ...

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... has completed, the installed modifications are removed from both the MOB and the **stable log**. This read-modify-write **cycle** for **flushing** modifications is ...

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... less restrictive and simpler to implement than **log**-based rollback ... its execution and replies with the **dependency** information saved on **stable** storage as ...

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... been proven that a checkpoint involved in a Z-**cycle** cannot become ... their original order to reach state Y. During recovery, **log**-based rollback ... 2.8 **Stable** Storage ...

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[PS] Mootaz Elnozahy is with IBM Austin Research Lab. Email: mootaz@us. ...

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... proven that a checkpoint involved in a Z-**cycle** cannot ... acquiring a **dependency** on the location of a ... these nondeterministic events be logged on **stable** storage so ...

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... In a VMDB system, this additional **dependency** does not exist. ... P-FB rules that form a **cycle** are encountered ... F2 is always propagated back to **stable** storage before ...

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... of the backup unless some form of **stable** logging is ... M must essentially translate into a 0-**cycle** operation on T ... is based on a limited form of **log**-based rollback ...

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... personal computer system using a **non-volatile** reprogrammable **memory** ... data stored in a **memory** and communication ... for their preparation A **stable** product containing ...

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... DSPs execute up to eight operations within one clock **cycle**. ... form two inverters that have two **stable** states, which ... of inputs, while multiplexers require **log** 2 (n ...

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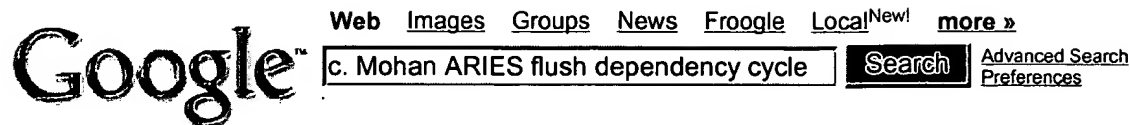
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... Further, we assume that the redo recovery process is **ARIES**-like in ... Only acyclic write graphs specify a feasible **flush** order ... 0, ie Q is in must(O), and Q c P in ...

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... the application and glibc, the GNU **C** library ... In contrast, the simple **dependency** approach starts with a very ... state, which occurs when the undo **cycle** alters state ...

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... [Mohan92] **C. Mohan**, D. Haderle, B ... **ARIES**: A Transaction Recovery Method Supporting Fine-Granularity Locking and Partial Rollbacks Using Write-Ahead Logging. ...

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... evolving to "physiological" techniques [4] such as **ARIES** [11 ... once A is executed, a **flush** order **dependency** exists to ... graph is acyclic to impose a **flush** order on ...

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... Luc Bouganim, Françoise Fabret, and **C. Mohan** 42 ... The last of the four editors of the previous two year **cycle** have now completed their issues and are due to ...

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... Subsequently, transaction processing benchmarking has moved to TPC-**C** (the order-entry ... eg, [8, 3]). If it turns out, after another observation **cycle**, that the ...

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... 17] **Mohan**, **C.**, Haderle, D ... if it overestimates the amount allocated to it (see Appendix **C**). Thus, a ... use of page-**flush** policies to support the **ARIES** [17] recovery ...

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... Read Prechecking in **ARIES** . . . to full CPU utilization, and another in which the **flush** is retained ... However, since **C** and C++ are still dominant for CAD and other ...

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... 4.2 Techniques Versus Phases of the Software **Cycle** The **dependency** on computing systems, especially on communications ... a nor- mally unused portion of **C** code in ...

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